

June 11, 1986

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TO: Memo

From: James Leatherwood

RE: Subsoil suitability as a topsoil substitute, Sevier Dry Lake Project, PRO/027/008, Millard County, Utah.

On June 04, 1986 Wayne Hedburg and James Leatherwood of the Division visited the Sevier Dry Lake Project site. The objective of the field site visit was to quantify the soil-vegetative characteristics of the area and to determine the suitability of subsoils as a substitute topsoil material. In general the soils are lacustrine and alluvial deposits with variable strata depths, texture and chemistry. Based on the following data and proposed agronomic plan implementation, the Division has determined that the subsoil characteristics to be of equivalent productivity as the topsoil.

Supporting Data:

Soil Classification: Typic Calciorthids-Typic Torriorthents Association

Sample	Depth	Color	Texture
A	0-6"	5YR 6/3 light reddish brown	sandy loam
B	6-43"	5YR 7/3 pink	loam
C	43-48"	5YR 7/2 pinkish grey	silty clay loam
D	48-60"	5YR 8/2 pinkish white	clay

pH	Water Soluble Nitrates (ppm)
8.1	7
7.7	8
7.5	14
7.6	7

Agronomic Management Implementation:

- 1) Disc one ton of alfalfa (or other organic material with a C:N ratio equal to 20:1) into the top twelve inches of the seedbed.
- 2) Disc in 40 lbs/ac equivalence of elemental P (200 lbs/ac Triple Superphosphate fertilizer) and 8 lbs/ac equivalence of elemental N (40 lbs/ac Ammonia Sulfate fertilizer).

cc: W. Hedberg
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